

## SEQUENCE LISTING

&lt;110&gt; CHUGAI SEIYAKU KABUSIKI KAISHA

5 &lt;120&gt; Vascularization Inhibitors

&lt;130&gt; CGS-I 98-06 PCT

&lt;140&gt; PCT/JP99/01448

10 &lt;141&gt; 1999-03-23

&lt;150&gt; JP10/95448

&lt;151&gt; 1998-03-24

15 &lt;160&gt; 12

&lt;210&gt; 1

&lt;211&gt; 352

&lt;212&gt; PRT

20 &lt;213&gt; Mus

&lt;400&gt; 1

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	20 25	30
	Glu Glu Asn Ala Asn Phe Asn Lys Ile Phe Leu Pro Thr Ile Tyr	
	35 40	45
	Ser Ile Ile Phe Leu Thr Gly Ile Val Gly Asn Gly Leu Val Ile	
30	50 55	60
	Leu Val Met Gly Tyr Gln Lys Lys Leu Arg Ser Met Thr Asp Lys	
	65 70	75
	Tyr Arg Leu His Leu Ser Val Ala Asp Leu Leu Phe Val Ile Thr	
	80 85	90
35	Leu Pro Phe Trp Ala Val Asp Ala Val Ala Asn Trp Tyr Phe Gly	
	95 100	105
	Asn Phe Leu Cys Lys Ala Val His Val Ile Tyr Thr Val Asn Leu	
	110 115	120
	Tyr Ser Ser Val Leu Ile Leu Ala Phe Ile Ser Leu Asp Arg Tyr	
40	125 130	135
	Leu Ala Ile Val His Ala Thr Asn Ser Gln Arg Pro Arg Lys Leu	
	140 145	150
	Leu Ala Glu Lys Val Val Tyr Val Gly Val Trp Ile Pro Ala Leu	
	155 160	165
45	Leu Leu Thr Ile Pro Asp Phe Ile Phe Ala Asn Val Ser Glu Ala	

	170	175	180
	Asp Asp Arg Tyr Ile Cys Asp Arg Phe Tyr	Pro Asn Asp Leu Trp	
	185	190	195
	Val Val Val Phe Gln Phe Gln His Ile Met	Val Gly Leu Ile Leu	
5	200	205	210
	Pro Gly Ile Val Ile Leu Ser Cys Tyr Cys	Ile Ile Ile Ser Lys	
	215	220	225
	Leu Ser His Ser Lys Gly His Gln Lys Arg	Lys Ala Leu Lys Thr	
	230	235	240
10	Thr Val Ile Leu Ile Leu Ala Phe Phe Ala	Cys Trp Leu Pro Tyr	
	245	250	255
	Tyr Ile Gly Ile Ser Ile Asp Ser Phe Ile	Leu Leu Glu Ile Ile	
	260	265	270
	Lys Gln Gly Cys Glu Phe Glu Asn Thr Val	His Lys Trp Ile Ser	
15	275	280	285
	Ile Thr Glu Ala Leu Ala Phe Phe His Cys	Cys Leu Asn Pro Ile	
	290	295	300
	Leu Tyr Ala Phe Leu Gly Ala Lys Phe Lys	Thr Ser Ala Gln His	
	305	310	315
20	Ala Leu Thr Ser Val Ser Arg Gly Ser Ser	Leu Lys Ile Leu Ser	
	320	325	330
	Lys Gly Lys Arg Gly Gly His Ser Ser Val	Ser Thr Glu Ser Glu	
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	Ser Ser Ser Phe His Ser Ser		
25	350		

&lt;210&gt; 2

&lt;211&gt; 1588

&lt;212&gt; DNA

30 &lt;213&gt; Mus

&lt;220&gt;

&lt;221&gt; CDS

&lt;222&gt; (1)...(1059)

35

&lt;400&gt; 2

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	gaa gaa aat gct aat ttc aat aaa atc ttc ctg ccc acc atc tac	135
40	tcc atc atc ttc tta act ggc att gtg ggc aat gga ttg gtc atc	180
	ctg gtc atg ggt tac cag aag aaa ctg aga agc atg acg gac aag	225
	tac agg ctg cac ctg tca gtg gcc gac ctc ctc ttt gtc atc acg	270
	ctt ccc ttc tgg gca gtt gat gcc gtg gca aac tgg tac ttt ggg	315
	aac ttc cta tgc aag gca gtc cat gtc atc tac aca gtc aac ctc	360
45	tac agc agt gtc ctc atc ctg gcc ttc atc agt ctg gac cgc tac	405

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 ctg ctg act att ccc gac ttc atc ttt gcc aac gtc agt gag gca 540  
 gat gac aga tat atc tgt gac cgc ttc tac ccc aat gac ttg tgg 585  
 5 gtg gtt gtg ttc cag ttt cag cac atc atg gtt ggc ctt atc ctg 630  
 cct ggt att gtc atc ctg tcc tgc tat tgc att atc atc tcc aag 675  
 ctg tca cac tcc aag ggc cac cag aag cgc aag gcc ctc aag acc 720  
 aca gtc atc ctc atc ctg gct ttc ttc gcc tgt tgg ctg cct tac 765  
 10 tac att ggg atc agc atc gac tcc ttc atc ctc ctg gaa atc atc 810  
 aag caa ggg tgt gag ttt gag aac act gtg cac aag tgg att tcc 855  
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 ctc tat gct ttc ctt gga gcc aaa ttt aaa acc tct gcc cag cac 945  
 gca ctc acc tct gtg agc aga ggg tcc agc ctc aag atc ctc tcc 990  
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 15 tct tca agt ttt cac tcc agc taa cacagatgta aaagactttt ttttat 1085  
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 20 25 30  
 35 Phe Arg Asp Glu Asn Val His Phe Asn Arg Ile Phe Leu Pro Thr  
 35 40 45  
 Ile Tyr Phe Ile Ile Phe Leu Thr Gly Ile Val Gly Asn Gly Leu  
 50 55 60  
 40 Val Ile Leu Val Met Gly Tyr Gln Lys Lys Leu Arg Ser Met Thr  
 65 70 75  
 Asp Lys Tyr Arg Leu His Leu Ser Val Ala Asp Leu Leu Phe Val  
 80 85 90  
 Ile Thr Leu Pro Phe Trp Ala Val Asp Ala Met al.a Asp Trp Tyr  
 95 100 105  
 45

	Phe Gly Lys Phe Leu Cys Lys Ala Val His Ile Ile Tyr Thr Val	
	110 115	120
	Asn Leu Tyr Ser Ser Val Leu Ile Leu Ala Phe Ile Ser Leu Asp	
	125 130	135
5	Arg Tyr Leu Ala Ile Val His Ala Thr Asn Ser Gln Arg Pro Arg	
	140 145	150
	Lys Leu Leu Ala Glu Lys Ala Val Tyr Val Gly Val Trp Ile Pro	
	155 160	165
	Ala Leu Leu Leu Thr Ile Pro Asp Phe Ile Phe Ala Asp Val Ser	
10	170 175	180
	Gln Gly Asp Ile Ser Gln Gly Asp Asp Arg Tyr Ile Cys Asp Arg	
	185 190	195
	Leu Tyr Pro Asp Ser Leu Trp Met Val Val Phe Gln Phe Gln His	
	200 205	210
15	Ile Met Val Gly Leu Ile Leu Pro Gly Ile Val Ile Leu Ser Cys	
	215 220	225
	Tyr Cys Ile Ile Ile Ser Lys Leu Ser His Ser Lys Gly His Gln	
	230 235	240
	Lys Arg Lys Ala Leu Lys Thr Thr Val Ile Leu Ile Leu Ala Phe	
20	245 250	255
	Phe Ala Cys Trp Leu Pro Tyr Tyr Val Gly Ile Ser Ile Asp Ser	
	260 265	270
	Phe Ile Leu Leu Gly Val Ile Lys Gln Gly Cys Asp Phe Glu Ser	
	275 280	285
25	Ile Val His Lys Trp Ile Ser Ile Thr Glu Ala Leu Ala Phe Phe	
	290 295	300
	His Cys Cys Leu Asn Pro Ile Leu Tyr Ala Phe Leu Gly Ala Lys	
	305 310	315
	Phe Lys Ser Ser Ala Gln His Ala Leu Asn Ser Met Ser Arg Gly	
30	320 325	330
	Ser Ser Leu Lys Ile Leu Ser Lys Gly Lys Arg Gly Gly His Ser	
	335 340	345
	Ser Val Ser Thr Glu Ser Glu Ser Ser Ser Phe His Ser Ser	
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 <212> DNA  
 <213> Mus

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 <221> CDS  
 <222> (1)...(1080)  
 <223>

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 ttc cgg gat gaa aac gtc cat ttc aat agg atc ttc ctg ccc acc 135  
 5 atc tac ttc atc atc ttc ttg act ggc ata gtc ggc aat gga ttg 180  
 gtg atc ctg gtc atg ggt tac cag aag aag cta agg agc atg acg 225  
 gac aag tac cgg ctg cac ctg tca gtg gct gac ctc ctc ttt gtc 270  
 atc aca ctc ccc ttc tgg gca gtt gat gcc atg gct gac tgg tac 315  
 ttt ggg aaa ttt ttg tgt aag gct gtc cat atc atc tac act gtc 360  
 10 aac ctc tac agc agc gtt ctc atc ctg gcc ttc atc agc ctg gac 405  
 cgg tac ctc gcc att gtc cac gcc acc aac agt caa agg cca agg 450  
 aaa ctg ctg gct gaa aag gca gtc tat gtg ggc gtc tgg atc cca 495  
 gcc ctc ctc ctg act ata cct gac ttc atc ttt gcc gac gtc agc 540  
 cag ggg gac atc agt cag ggg gat gac agg tac atc tgt gac cgc 585  
 15 ctt tac ccc gat agc ctg tgg atg gtg gtg ttt caa ttc cag cat 630  
 ata atg gtg ggt ctc atc ctg ccc ggc atc gtc atc ctc tcc tgt 675  
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 tcc agc ctc aag atc ctt tcc aaa gga aag cgg ggt gga cac tct 1035  
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 35 tgtttgtttt ttcagttttc aagagtagat tgacttcagt ccctacaaat gtacagtctt 1680  
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1758

&lt;210&gt; 5

40 &lt;211&gt; 89

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;223&gt; Ligand peptide

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5 20 25 30  
Pro Cys Arg Phe Phe Glu Ser His Val Ala Arg Ala Asn Val Lys  
35 40 45  
His Leu Lys Ile Leu Asn Thr Pro Asn Cys Ala Leu Gln Ile Val  
50 55 60  
10 Ala Arg Leu Lys Asn Asn Asn Arg Gln Val Cys Ile Asp Pro Lys  
65 70 75  
Leu Lys Trp Ile Gln Glu Tyr Leu Glu Lys Ala Leu Asn Lys  
80 85

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<212> DNA  
<213> Mus

20 <220>  
<221> CDS  
<222> (471)...(743)

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ggaggcacgg ggcctggagg cgccaggcgg aggatgcggg cgacacgggtg gcggcggcga 180  
ccgcgcgacc gggcggggcgg gcgggcaggg gcgagcggag ggagggagcg gactgcggca 240  
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30 ctccccccac ccacgcagg ggcgggcctt ccccaacgcg ggcgcccact ggccgccgcg 360  
cgccgctccc ctccagctcg cctgcgcctc tcaactctcg tcagccgcat tgcccgctcg 420  
gcgtccggcc ccgaccgc gtcgtccgc ccgcccgc gcccgccgc gcc 473  
atg aac gcc aag gtc gtg gtc gtg ctg gtc ctc gtg ctg acc gcg 518  
ctc tgc ctc agc gac ggg aag ccc gtc agc ctg agc tac aga tgc 563  
35 cca tgc cga ttc ttc gaa agc cat gtt gcc aga gcc aac gtc aag 608  
cat ctc aaa att ctc aac act cca aac tgt gcc ctt cag att gta 653  
gcc cgg ctg aag aac aac aac aga caa gtg tgc att gac ccg aag 698  
cta aag tgg att cag gag tac ctg gag aaa gct tta aac aag taa 743  
gcacaacagc caaaaaggac tttccgctag acccactcga ggaaaactaa aaccttgta 803  
40 gagatgaaag ggcaaagacg tgggggaggg ggccttaacc atgaggacca ggtgtgtgtg 863  
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25

<400> 7

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45

&lt;220&gt;

&lt;221&gt; CDS

&lt;222&gt; (82)...(351)

5

&lt;400&gt; 8

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gcgcgccctc ccgcccacgc c 81

10

atg gac gcc aag gtc gtc gcc gtg ctg gcc ctg gtg ctg gcc gcg 126

ctc tgc atc agt gac ggt aaa cca gtc agc ctg agc tac cga tgc 171

ccc tgc cgg ttc ttc gag agc cac atc gcc aga gcc aac gtc aag 216

cat ctg aaa atc ctc aac act cca aac tgt gcc ctt cag att gtt 261

gca cgg ctg aag aac aac aac aga caa gtg tgc att gac ccg aaa 306

tta aag tgg atc caa gag tac ctg gag aaa gct tta aac aag taa 351

15

gcacaacagc ccaaaggact ttccagtaga ccccgagga aggtgacat ccgtgggaga 411

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cgatattgca gcttatattc atccctgccc tcgccgtgc acaatggagc tttataact 591

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aaacttgcac acattcttat gatcacagac ggccctgggtg gtttttggtg actatttaca 1491

aggcattttt ttacatatat ttttgtgcac tttttatgtt tctttggaag acaaatgtat 1551

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&lt;210&gt; 9

&lt;211&gt; 4

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

45

&lt;220&gt;



<223> added peptide

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Arg Phe Lys Met

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